(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 30 September 2004 (30.09.2004)

PCT

(10) International Publication Number WO 2004/083079 A3

(51) International Patent Classification7:

A47F 5/00

(21) International Application Number:

PCT/US2004/007621

- (22) International Filing Date: 12 March 2004 (12.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/454,999

14 March 2003 (14.03.2003) US

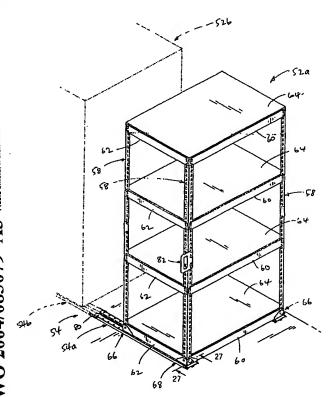
- (71) Applicant (for all designated States except US): SPACE-SAVER CORPORATION [US/US]; 1450 Janesville Avenue, Fort Atkinson, WI 53558 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MUTH, James, C. [US/US]; 3689 North Riverline Drive, Oconomowoc, WI 53066 (US). NEMEC, Brian, R. [US/US]; W7481 Pleasant Street, Delavan, WI 53115 (US). JANSON, Steven, L. [US/US]; 4615 Hwy. 73N, Deerfield, WI 53531 (US). RUNGE, Marvin, L. [US/US]; 75 Esat Curharken Drive,

Edgerton, WI 53534 (US). DINGLE, Steve, S. [US/US]; 5805 Running Deer Trail, McFarland, WI 53558 (US).

- (74) Agent: MCCONNELL, Andrew, S.; Boyle, Fredrickson, Newholm, Stein & Gratz, S.C., 250 East Wisconsin Avenue, Suite 1030, Milwaukee, Wisconsin 53202 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: VARIABLY CONFIGURABLE TRACK-TYPE MOBILE SHELVING SYSTEM



(57) Abstract: A mobile storage system includes a series of storage units that include wheel assemblies that move on floor-mounted rails. The storage units, wheel assemblies and rails are produced and shipped in disassembled, knock-down kit form, and are assembled on-site in either a lateral high density configuration or a pull-out high density configuration. The user is able to selectively configure the storage units, the wheel assemblies and the rails to provide the desired configuration of the storage system.

WO 2004/083079 A3 ||||||||

GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 23 March 2006



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/07621

	OT OTHER SAME			
A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : A47F 5/00				
US CL: 160/162 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S. : 160	0/162, 151; 16/30, 43; 108/102; 312/201			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
the country used)				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C DOCT	IMENTS CONSIDERED TO BE RELEVANT			
	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Category *	US 3,286,651 A (DAHL, JR) 22 November 1966 (22.11.1966), see entire document		1-14,24-31	
x	US 3,280,031 A (DATE, 3R) 22 10002200 10 11	•		
 Y			16,20-23,38-41	
1			14 22 26	
х	US 3,967,868 A (BAKER, JR.) 06 July 1976 (06.07.1	1976), see entire document	14,32-36	
· <u>^</u>			15-23.37-41	
Y			15/25,57	
_		domment	1-41	
A	US 4,807,765 A (BROWN et al) 28 February 1989 (28.02.1989), see entire document			
	US 5,597,217 A (HOSKA et al) 28 January 1997 (28.01.1997), see entire document		15,17-19,37	
Y	US 5,597,217 A (HOSKA et al) 28 January 1997 (28.	.01.1997), see entire document		
			1	
			1	
Į.			}	
	The state of Pow C	See patent family annex.		
	er documents are listed in the continuation of Box C.	the demonstration of the the	international filing date or priority	
* Special categories of cited documents.			Dication our cited to difference	
"A" docume	nt defining the general state of the art which is not considered to be	the principle or theory underlying	the invention	
of partic	cular relevance	"X" document of particular relevance;	the claimed invention cannot be	
"E" carlier	application or patent published on or after the international filing	considered novel or cannot be cor step when the document is taken a	RIGGLEG TO MADIAE WIT MACITIAE	
date	application of public passages and an area	-		
AT F domino	ent which may throw doubts on priority claim(s) or which is cited to	"Y" document of particular relevance; considered to involve an inventive	the claimed invention cannot be	
establis	th the publication date of another citation or other special reason (as	combined with one or more other	such documents, such combination	
specifie	×1)	being obvious to a person skilled	in the art	
"O" docume	ent referring to an oral disclosure, use, exhibition or other means	"&" document member of the same pa	tent family	
Sing date but later than the				
1 in the delegation of the country o				
Date of the actual completion of the international search Date of mailing of the international search				
1 /				
28 December 2005 (28.12.2005) Name and mailing address of the ISA/US Authorized officer				
Mail Stop PCT, Attn: ISA/US Richard Chilcot				
Commissioner for Patents				
P.O. Boy 1450 / Traignhous No. (703) 308-1020				
	Alexandria, Virginia 22313-1450 Recsimile No. (571) 273-3201			
Hacsimile	NO. 13111 613-3644			

Form PCT/ISA/210 (second sheet) (April 2005)